Original

BRUHAT BANGALORE MAHANAGA PALIKE, BANGALORE

Name of Work: "IMPROVEMENTS TO FOOTPATH AND ASPHALTING TO 3RD CROSS,8TH,9TH,10TH MAIN IN JUDICIAL LAYOUT ALLALASANDRA OF YELAHANKA ZONE IN WARD NO-4"

Detailed Project Report

Estimated Cost is Rs.200.00 Lakhs

Assistant Executive Engineer
Road Infrastructure
BBMP, Bangalore

Executive Engineer
Road Infrastructure
BBMP, Bangalore

IMPROVEMENTS TO FOOTPATH AND ASPHALTING TO 3RD CROSS,8TH,9TH,10TH MAIN IN JUDICIAL LAYOUT ALLALASANDRA OF YELAHANKA ZONE IN WARD NO-4

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Removing B.S. slab of Drain and stacking and Refixing stone slabs of drains and pointing in C.M (1:3). (Pg. No-28. It No-5.32&5.33) IPWD S.R.-2013-2014								
Drain Slab Consider 60%					1620.00			194643=00
3rd Cross from bellary Road	2	750.0	1.80		~~2700.00~~	**Sqm**	**120.15**	**324405.00**
2 KSRRB M300-19. Removal of **unserviceable soil** including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 (Pg. No-154. It No-19.20) IPWD S.R.-2013-2014								
Disilt								
3rd Cross from bellary Road	2	750.0	0.52	0.55	429.00			
					429.00	**Cum**	**160.70**	**68,940.00**
3 KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.MORTH / Chapter 3 (Pg. No-152. It No-19.1) IPWD S.R.-2013-2014								
For Shoulder Drains								
For 50.0m each Both Side		**750/50=15**						
3rd Cross from bellary Road	30	2.5	0.75	0.30	16.88			
Drain								
For Railway Track to under pass	2	141.0	0.60	0.55	93.06			
NearVolleye ball Court	1	32.0	0.60	0.60	11.52			
Behind Shivraj patil House	2	30.0	0.60	0.55	19.80			26606.32
					141.26	**Cum**	**188.35**	**26,605.00**
4 KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix M15** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.(Pg. No-12. It No-4.6) IPWD S.R.-2013-2014								
For Shoulder Drains PCC								
For 50.0m each Both Side		**750/50=15**						
3rd Cross from bellary Road	30	2.5	0.75	0.15	8.44			
Coping								
3rd Cross from bellary Road	60	2.5	0.20	0.10	3.00			
For Flagging Coarse PCC								
For Drain								
3rd Cross from bellary Road								
LHS	2	750.0	0.20	0.10	30.00			
RHS	2	750.0	0.20	0.10	30.00			
8th Main								
LHS	2	25.0	0.20	0.10	1.00			

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
RHS	2	25.0	0.20	0.10	1.00			
Near Under Pass								
LHS	2	141.0	0.20	0.10	5.64			
RHS	2	141.0	0.20	0.10	5.64			
3rd Cross from bellary Road								
For Flagging Coarse Coping								
For Drain								
3rd Cross from bellary Road								
LHS	2	755.0	0.20	0.10	30.20			
RHS	2	755.0	0.20	0.10	30.20			
8th Main								
LHS	2	25.0	0.20	0.10	1.00			
RHS	2	25.0	0.20	0.10	1.00			
Near Under Pass								
LHS	2	141.0	0.20	0.10	5.64			
RHS	2	141.0	0.20	0.10	5.64			756993.60
					158.40	**Cum**	**4779.00**	**756982.00**
KSRB 5-14 : Providing and constructing precast concrete **solid blocks** with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.								
For Drain								
3rd Cross from bellary Road								
LHS	2	750.0		0.40	600.00			
RHS	2	750.0		0.40	600.00			
8th Main								
LHS	2	25.0		0.40	20.00			
RHS	2	25.0		0.40	20.00			
Near Under Pass								
LHS	2	141.0		0.40	112.80			
RHS	2	141.0		0.40	112.80			
3rd Cross from bellary Road								
For Shoulder Drains								
For 50.0m each Both Side		**750/50=15**						
2X15	30	2.8 2.50		0.4	83.60	30.00		
	30	2.8 2.50		0.4	83.60	30.00		1410386.69
				1525.60	**1532.80**	**Sqm**	**924.48**	**1417043.00**
KSRB 5-15 : Providing and constructing non-load bearing wall with cement concrete **solid blocks** with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 (Jamb, closer blocks) with blocks of size 40x10x20cms. (lxbxh) conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.								
For Tree Protection								
77 trees					94.52	**Sqm**	**663.12**	62678.10

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.(Data Ref) (For Drain)								
3rd Cross from bellary Road								
For Flagging Coarse Coping								
For Drain								
3rd Cross from bellary Road								
LHS	1	750.0	1.00		750.00			
RHS	1	750.0	1.00		750.00			
8th Main								
LHS	1	25.0	0.90		22.50			
RHS	1	25.0	0.90		22.50			
Near Under Pass								
LHS	1	141.0	0.90		126.90			
RHS	1	141.0	0.90		126.90			
For Shoulder Drains								
For 50.0m each Both Side		**750/50=15**			56.25			
2X15	30	2.80	0.75		63.00			3077527.95
		2.50		1855.05	**1816.80**	Sqm	**1659.00**	**3014071.20**
Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.								
Drain Slab								
3rd Cross from bellary Road	2	750.0	1.80		2700.00			
Consider 40% missing/Damaged Slab								
					1080.00	**Sqm**	**579.96**	**626356.80**
KSRRB M300-54. Construction of **embankment** with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 complete asper specifications.which includes , watering charges & compaction by vibratory roller) MORTH Specification								
For Foot Path								
3rd Cross from bellary Road								
LHS	1	500.0	1.90	0.30	285.00			
RHS	1	567.0	1.90	0.30	323.19		67.82	41947.45
					608.19	**Sqm**	**166.32**	**101154.00**
KSRB 14.6-1: Providing and laying **heavy duty cobble stones** 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.								
For Foot Path								
3rd Cross from bellary Road								
LHS	1	500.0	1.85		925.00			

397

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
LHS	1	567.0	1.85		1048.95			
					1973.95			
						Sqm	**848.88**	1675646
KSRRB 500-2. Cleaning the **existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5		200.00			2400.00			
3rd Cross from bellary Road	1	250.0	12.00		3000.00			
9th Main	1	650.0	12.00		7800.00			26418.00
				10200.00	**10800.0**	**Sqm**	**2.59**	**27972.00**
KSRRB M300-14. **Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301								
Over Burden Earth								
8th Main								
LHS&RHS	2	79.00	1.20	0.30	47.40			
	2	182.0	1.20	0.10	131.04			
3rd Cross from bellary Road	2	805.0	0.20	0.15	48.30			
9th Main	2	250.0	1.00	0.10	50.00			
10th Main	2	225.0	1.00	0.10	45.00			
13th Main	2	336.05	1.00	0.10	67.21			
Pipe lineCut Portion								
BWSSB Pipe Line Cutting portion 3rd Cross from bellary Road	1	500.0	2.50	0.25	312.50			
7th Main	1	650.0	1.50	0.25	243.75			
Berm Cutting								
8th Main	2	500.0	1.20	0.15	180.00		159.52	179492.00
					1125.20	**Sqm**	**160.30**	**331633.00**
KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
BWSSB Pipe Line Cutting portion 3rd Cross from bellary Road	1	500.0	2.50		1250.00			
9th Main	1	650.0	1.50		975.00			
					2225.00	**Sqm**	**4.05**	**9011.00**
KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix** macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
BWSSB Pipe Line Cutting portion 3rd Cross from bellary	1	500.0	2.50	0.20	250.00			
Road Cut Portion	15	12.0	0.60	0.20	21.60			
Pot holes	20	1.0	1.20	0.20	4.80			
7th Main	1	650.0	1.50	0.20	195.00			
					471.4	**Cum**	**1121.04**	**528458.00**
KSRRB 500-6.Providing and applying **primer coat** with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MoRT&H Specification No. 502								
BWSSB Pipe Line Cutting portion 3rd Cross from bellary Road	1	500.0	2.50		1250.00			
Road Cut Portion	15	12.0	0.60		108.00			
Pot holes	20	1.0	1.20		24.00			
7th Main	1	650.0	1.50		975.00			104367.96
					2357.00	**Sqm**	**44.28**	**104368.00**
KSRRB 500-8. Providing and applying **tack coat** on prepared block topped surface with primer at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour,HOM of machineries complete as per specifications. MORTH / Chapter 5								
Profile Correction								
7th Main	1	25.00	5.00		125.00			
	1	50.00	4.00		200.00			
	1	100.00	5.00		500.00			
	1	150.00	4.00		600.00			
7th Main	1	325.0	3.50		1137.50			
For DBM								
3rd Cross from bellary Road	1	200.0	12.00		2400.00			
Road Cut Portion	15	12.0	0.60		108.00			
Pot holes	20	1.0	1.20		24.00			
For BC								
3rd Cross from bellary Road	1	200.0	12.00		2400.00			
7th Main	1	650.0	12.00		7800.00			
Road Cut Portion	15	12.0	0.60		108.00			
Pot holes	20	1.0	1.20		24.00			
Total					**15426.5**	**sqm**	**17.93**	**276597.00**
KSRRB 500-16. Providing and laying **dense bituminous macadam** 50-75mm compacted thickness with 4.5% bitumen 60/70 grade, contents on prepared surface with specified graded crushed aggregates for base / binder course including loading of material with F.E. loader, heating of binder aggregates and filler in hot mix plant 40 - 60 TPH, transporting the mixed material by tipper and laying with paver finisher to the required level and grade, rolling by power roller to achieve the desired density (but excluding primer / tack coat) to a lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications grading 2. MORTH / Chapter 5									
Profile Correction								
7th Main	1	25.00	5.00	0.05	6.25			

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1	50.00	4.00	0.05	10.00			
	1	100.00	5.00	0.05	25.00			
	1	150.00	4.00	0.05	30.00			
	1	325.0	3.50	0.05	56.88			
3rd Cross from bellary Road	1	200.0	12.00	0.05	120.00			
Road Cut Portion	15	12.0	0.60	0.05	5.40			
Pot holes	20	1.0	1.20	0.05	1.20			2386863.40
					254.73	**Cum**	**9370.17**	**2386816.00**
KSRRB M500-19. Providing and laying **bituminous concrete** 40mm Compacted thickness using crushed aggregates of specified grading, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a Mechanical paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (30-45mm compacted thickness (Grading II) 60/70								
3rd Cross from bellary Road	1	200.0	12.00	0.04	96.00			
8th Main	1	650.0	12.00	0.04	312.00			
Road Cut Portion	15	12.0	0.60	0.04	4.32			
Pot holes	20	1.0	1.20	0.04	0.96			
Total					**413.28**	**cum**	**11722.59**	**4844712.00**
Providing and fixing pre cast solid cement **concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
3rd Cross from bellary Road								
LHS	1	750.0			1666.67			
RHS	1	750.0			1666.67			
8th Main								
	1	30.0			66.67			
	1	30.0			66.67			928601.28
		1560.00	3467.00		**3466.67**	**Nos**	**267.84**	**928512.00**
KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								
3rd Cross from bellary Road								
LHS	1	750.0		0.35	262.50			
RHS	1	750.0		0.35	262.50			
8th Main								
	1	30.0		0.35	10.50			
	1	30.0		0.35	10.50			
					546.0	**Sqm**	**51.84**	**28304.64**

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NEMZEN CONSULTANTS (I) P. Ltd. Bangalore

Bangalore Mahanagara Palike

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
M800-13.**Road Marking with Hot Applied** Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
Cross from bellary Road	2.0	200.0	0.15		60.00			
	0.5	200.0	0.10		10.00			
Main	2.0	650.0	0.15		195.00			
	0.5	650.0	0.10		32.50			
					297.50	**Sqm**	**471.96**	**140408.10**
~~Concrete Benches~~			Sub Total = 17394260.95					~~240000.00~~
Maintanance Cost								**146722.00**
Blended Plastic for bituminous concrete layer, Data Rate: (QTY=8% of BC Bitumen Qty. = [BC (8/100) X(1441.14)								145729.50 ~~125868.56~~
	1				~~4661.80~~	**Kgs**	**27.00**	**125869.00**
								~~17,770,145.8~~
			594715.39 = Miscellanous +				**PMC &DPR COST**	~~177,701.00~~
			1739426.10 +				**KRIDL Charges 10%**	**1,777,014.58**
							~~Sub Total~~	~~19997452.38~~
~~Miscellaneous~~								~~2,547.62~~
					GRAND TOTAL	2,00,00,000/-		**20000000.00**

Assistant Engineer,

Asst. Executive Engineer,
Road infrastructure
BBMP,Bnagalore

Executive Engineer,
Road infrastructure
BBMP,Bnagalore

Administrative sanction for Rs. 2,00,00,000/-
(Rs. Two Crores only)
is accorded under head
P-0541
Registered as C.E. No. 33/14-15/8 - 8 Subject to conditions enclosed in memo.
No. CE(RI)/ADM/AS/33/14-15 8 Dt. 30.09.2014

AE/JE TA CE (RI)

Technically sanctioned for Rs. 2,00,00,000/-
Rs. Two Crores only
under P-0541
Registered as C.E. No. 29/14-15/7 - 7 Subject to conditions enclosed in memo.
No. CE(RI)/TS/29/14-15 7 Dt. 30.09.2014

AE/JE TA CE (RI)

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